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Term:

((record or records or recorded) same playback)
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File: USPT

May 16, 2000

US-PAT-NO: 6065050

DOCUMENT-IDENTIFIER: US 6065050 A

TITLE: System and method for indexing between trick play and normal play video streams in a video delivery system

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeMoney; Michael A.	Los Gatos	CA	N/A	N/A

US-CL-CURRENT: 709/219; 348/12, 348/7, 455/4.2

ABSTRACT:

A system and method for indexing between video streams in an interactive video delivery system. The interactive video delivery system includes at least one media server which stores video streams having different presentation rates. In one embodiment, the system stores a normal play stream and one or more corresponding trick play streams. The trick play video streams are fast forward and/or fast reverse video streams. The system generates index tables or look-up tables between the normal play and trick play video streams which enable indexing between the streams, and uses these look-up tables to switch back and forth between the streams. In creating the index tables, the system first analyzes the normal play stream and creates a normal play time standard based on presentation timestamps from the normal play stream. The system then creates an index table or look-up table for each of the normal play and trick play video streams using the normal play time standard. Each index table includes an array of two-tuples, wherein the two-tuples are the normal play time standard and an index or offset into the respective stream. The index tables enable indexing between the streams. During video delivery, the system uses the respective index tables to switch back and forth between the normal play and trick play video streams.

35 Claims, 6 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 6

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L3: Entry 8 of 67

File: USPT

Feb 15, 2000

US-PAT-NO: 6025868

DOCUMENT-IDENTIFIER: US 6025868 A

TITLE: Stored program pay-per-play

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Russo; James	Ann Arbor	MI	N/A	N/A

US-CL-CURRENT: 348/3; 348/7

ABSTRACT:

A stored program pay-per-play system includes a high-capacity storage medium facilitating compilation of video, audio or other programs at a subscriber's site. While the recording of such programs may take place at any time preceding playback, billing occurs only when, and if, the subscriber chooses to select a program for replay or actually enjoys the program substantially in its entirety. Billing is alternatively based on a store-credit or account debiting scheme. The recording of program materials may be directed automatically by subscriber-operated storage management facilities which scan program schedules and select materials to be recorded, based on title, cast, program genre or any other of a variety of viewer/listener preferences. Alternatively, the program provider may automatically download programs, either based upon actual or surmised viewer preferences, or at the provider's discretion, for example, using newly-available selections. Display generation circuitry is preferably implemented, enabling the viewer to review selections to be downloaded, those selections available for immediate replay, remaining account balance, and other features, including "parental lockout" and so forth.

13 Claims, 2 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 2

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L3: Entry 17 of 67

File: USPT

Jun 22, 1999

US-PAT-NO: 5914941

DOCUMENT-IDENTIFIER: US 5914941 A

TITLE: Portable information storage/playback apparatus having a data interface

DATE-ISSUED: June 22, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janky; James M.	Los Altos	CA	N/A	N/A

US-CL-CURRENT: 370/313; 709/219

ABSTRACT:

A digital replacement for an analog audio tape recorder can record audio programming digitally in a faster than real time format and can play back audio programming, where such programming has been digitized and stored in data files using a variety of compression/decompression algorithms. Audio programming is stored digitally on a non-volatile medium, such as a hard drive, or in a flash EPROM, or other solid state non-volatile memory. The device includes a hard drive, a modem for connection to a data base via an on-line service, a keyboard, a display, and an audio system. The device uniquely combines the remote data access capability resident in a personal computer with a set of tailored, streamlined control functions to simplify, automate, and render seamless the process of selecting audio program material; ordering the program material from a service; receiving acknowledgment of the order and receiving the program material via automatic download for storage in a hard drive; playback of the program material when and where the user desires, with fully streamlined control functions; and control of the user interface functionality on the keyboard through a setup mode of operation.

18 Claims, 5 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 5

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File: USPT

Oct 27, 1998

US-PAT-NO: 5828370

DOCUMENT-IDENTIFIER: US 5828370 A

TITLE: Video delivery system and method for displaying indexing slider bar on the subscriber video screen

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moeller; Chris	Morgan Hill	CA	N/A	N/A
DeMoney; Mike	Los Gatos	CA	N/A	N/A
Goedman; Rob	Palo Alto	CA	N/A	N/A

US-CL-CURRENT: 345/328; 345/973, 348/12, 348/13

ABSTRACT:

A system and method which displays a graphical icon, such as a slider bar, on a subscriber's television or display unit for indexing to different positions in a video stream in an interactive video delivery system. The interactive video delivery system preferably comprises at least one media server which stores one or more video streams, and one or more subscribers which each include a display device, such as a television. The television displays a slider bar or other graphical icon, and the slider bar is used to index to different locations in the video stream. During video delivery, the user may use or adjust a knob on the slider bar, preferably using a remote control device, to indicate a desire to "jump" to a different location in the movie or video stream. The media server receives the slider bar user input from the subscriber device and begins outputting the normal play stream at the desired position.

27 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 8

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File: USPT

Aug 18, 1998

US-PAT-NO: 5796828

DOCUMENT-IDENTIFIER: US 5796828 A

TITLE: Controlled-access broadcast signal receiving system

DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsukamoto; Junichi	Tokyo	N/A	N/A	JPX
Goto; Koichi	Kanagawa	N/A	N/A	JPX
Fukushima; Shinichi	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 380/203; 705/57

ABSTRACT:

An apparatus and method for transferring from a broadcaster to a receiver a limited reproduction right in data. A signal indicating the limited reproduction right is transmitted by the broadcaster and stored by the receiver with the data. The receiver reproduces and processes the data as a function of this signal.

40 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 8

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L3: Entry 31 of 67

File: USPT

Aug 4, 1998

US-PAT-NO: 5790935

DOCUMENT-IDENTIFIER: US 5790935 A

TITLE: Virtual on-demand digital information delivery system and method

DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Payton; David W.	Woodland Hills	CA	N/A	N/A

US-CL-CURRENT: 455/5.1; 348/12, 348/7, 709/219

ABSTRACT:

A digital information system delivers virtual on-demand information over existing, as well as the next generation, digital transport systems by offloading a portion of the systems' peak bandwidth requirements to the local subscribers. A collaborative filtering system synthesizes the preferences of all of the subscribers and then predicts those items that each subscriber might like, and therefore request. Each subscriber is provided with a local storage device for storing, during off-peak hours, those items recommended by the collaborative filtering system. As a result, only a relatively few subscriber requests must be serviced directly from the central distribution system.

35 Claims, 13 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 8

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L3: Entry 38 of 67

File: USPT

Mar 17, 1998

US-PAT-NO: 5729649

DOCUMENT-IDENTIFIER: US 5729649 A

TITLE: Methods and apparatus for recording data on a digital storage medium in a manner that facilitates the reading back of data during trick play operation

DATE-ISSUED: March 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lane; Frank Anton	Medford Lakes	NJ	N/A	N/A
Augenbraun; Joseph Ellis	Princeton	NJ	N/A	N/A
Boyce; Jill MacDonald	Manalapan	NJ	N/A	N/A
Fuhrer; Jack Selig	Princeton	NJ	N/A	N/A
Henderson; John Goodchilde Norie	Princeton	NJ	N/A	N/A
Mohri; Katsuo	Yokosuka	N/A	N/A	JPX
Nakamura; Masafumi	Yokohama	N/A	N/A	JPX
Noguchi; Takaharu	Yokohama	N/A	N/A	JPX
Okamoto; Hiroo	Yokohama	N/A	N/A	JPX
Oku; Masuo	Kamakura	N/A	N/A	JPX
Plotnick; Michael Allen	Southampton	PA	N/A	N/A

US-CL-CURRENT: 386/68; 386/67

ABSTRACT:

A digital video tape recorder ("VTR") that selects data useful for generating images during trick playback operation and records the data in trick play tape segments arranged on a tape to form fast scan tracks and multi-speed playback tracks. Each fast scan track comprises trick play tape segments located on a diagonal, relative to the length of the tape, of the same angle as the angle at which the heads of a VTR are expected to pass over the tape during trick play operation at a specific speed and direction of operation. Each multi-speed playback track comprises a plurality of trick play tape segments arranged parallel to the length of the tape. Data which is used for at least one mode of trick play operation is recorded in each trick play tape segment. Each fast scan track and multi-speed track crosses multiple normal play tracks. During playback at a wide variety of speeds and directions, the heads pass over enough trick play segments of the multi-speed playback track to generate recognizable images during trick play operation. Data is recorded in each trick play segment in a manner that optimizes the amount of data that can be routinely recovered during trick playback operation despite tracking errors.

11 Claims, 31 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 26

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File: USPT

Nov 4, 1997

US-PAT-NO: RE35651

DOCUMENT-IDENTIFIER: US RE35651 E

TITLE: Secure hierarchial video delivery system and method

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bradley; Graham C.	Regina	N/A	N/A	CAX
Stretten; Alton O.	Regina	N/A	N/A	CAX
Leier; Terry L.	Regina	N/A	N/A	CAX

US-CL-CURRENT: 348/7; 340/825.31, 340/825.34, 380/202, 455/3.1, 455/6.1, 705/58

ABSTRACT:

Disclosed is an improved system for the delivery of entertainment and educational programming from a plurality of electronic libraries to a plurality of users. Users actuate a hand operated control device to: review a listing of available programming; enable the delivery of a program from a library; or control the delivery of forwarding and rewinding through the programming, and authorizing the purchase of advertised consumer goods by entering in personal identification numbers. The network of libraries and the paths for delivering the programming stored therein is arranged for optimum transmission efficiency and maximum access capacity. The key idea in optimizing transmission efficiency and access capacity is to recognize that programming can be grouped into different classes, and that not all classes of programs should be stored in all libraries. High demand entertainment programming should be stored and delivered from a central source whereas low demand educational or cultural programming should be stored and delivered from a local neighborhood library where there is a special interest in such programming. The system is intrinsically secure and encryption is not required. Programs are not delivered to any physical address other than that of the ordering user. Apparatus is employed to discourage the unauthorized copying of delivered programming. The system also permits the delivery of conventional cable television signals on a competitive basis. Apparatus is employed that maximizes access capacity and minimizes investment cost.

20 Claims, 8 Drawing figures Exemplary Claim Number: 13

Number of Drawing Sheets: 8

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File: USPT

Dec 10, 1996

US-PAT-NO: 5583937

DOCUMENT-IDENTIFIER: US 5583937 A

TITLE: Method for providing video programming nearly on demand

DATE-ISSUED: December 10, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ullrich; Kathryn E.	Los Angeles	CA	N/A	N/A
Walker; Stephen S.	Marlborough	MA	N/A	N/A
Calaby; Lauren F.	Huntington Beach	CA	N/A	N/A
Seibel; David E.	Colleyville	TX	N/A	N/A
Gillett; Thomas F.	Ballwin	MO	N/A	N/A

US-CL-CURRENT: 380/211; 348/7, 380/231

ABSTRACT:

A method for providing video programming in a nearly on demand basis is disclosed. A video network includes a video server that operates several video recorders to simultaneously exhibit video performances or programs on a plurality of channels. The video server is controlled in real time in accordance with data presented to it in an exhibition plan. The exhibition plan calls for two or more channels to show the same program on a time offset basis. Due to the offset in exhibiting a given program, a subscriber may view a program at any time, from the beginning of a program, by waiting for a period of time that is no longer than the offset. Preferably, this offset is substantially shorter than the run time of the program. The channels carrying this program are unscrambled prior to the beginning of the program and for a predetermined duration into the program so that subscribers may preview the program. However, the channels are scrambled for the remainder of the exhibition of the program. A subscriber may order the program when it begins and for a short duration after the program becomes scrambled.

56 Claims, 7 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 3